intered in N+D File intered On S R Sheet ocation Map Pinned	Checked by Chief Copy_NID to Field Office Approval Letter	
W R for State or Fee Land COMPLETION DATA:	Disapproval Letter	
Date Well Completed 1-12-60	Location Inspected .	4
OW TA	Bond released State of Fee Land	
LOGS F Driller's Log. 1-28-60	EILED	
Electric Logs (No.)	/	
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٠	Location map pinned
	Approval or Disapproval Letter
	Date <u>Completed</u> , P. & A. or operations suspended
	Pin changed on location map
	Affidavit and Record of A & P
	Water Shut-Off Test

Gas-Oil Ratio Test
Well Log Filed -

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(SUBMIT IN TRIPLICATE)

Budget Bureau No. 42–R359.4. Approval expires 12–31–60.

Indian Agency NSVAJO

UNITED STATES CONTRACT No. 14-20-003-5440

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Allottee	
Lease No.	

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	_X.	SUBSEQUENT REPORT OF WATER SHUT-OFF
NOTICE OF INTENTION TO CHANGE PLANS.		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.		SUBSEQUENT REPORT OF ALTERING CASING
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT.
NOTICE OF INTENTION TO PULL OR ALTER CASING.		SUPPLEMENTARY WELL HISTORY
NOTICE OF INTENTION TO ABANDON WELL		
	(- -	

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Lease No. 192553 Navajo Tribe Y Le	85 0		Nove	ber 10	, 19 <u>59</u>
Well No. 2 is	s located 1900 ft. f	$rom \begin{cases} N \\ S \end{cases}$ line an	nd 2140 ft. from	W line of sec	**************************************
NE/4 SW/4 Sec.4	7-41-3	R-24-E		. ,	
(¼ Sec. and Sec. No.)	(Twp.)	(Range)	(Meridian)	Jt a n	
(Field)	(Coun	ty or Subdivision)	(8	tate or Territory)	

The elevation of the derrick floor above sea level is 44.70 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

JOJECTIVE PURINTION	SIZE CASING	CASING PROGRAM Approx.
Top of Aneth: 5350'	5-5/8 (15001) 24 New 5-1/8 (55501) 14 New	1500' 1000 5x. 5550' 500 8x.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company TEAR OF LINE.	
Company TEXACO INC.	TEXACO Inc.
Address Midland, Texas	
	By J. J. Velten
	J. J. Velten
	Title Division Citil Engineer

GIS

Navajo Tribal Land Navajo "B" Lessee Unknown Lessee Unknown Superior Lse. 5.E.C. 4 SEC. 5 Navajo Tribe"X" Navalo Tribe TEXACO Inc. LSA. TEXACO Inc Lise 160 Ac. - 660'-0 Gr 51. 4502 R-24-E SEC. 9 SEC. 8 Navajo Tribe"X" Navalo Tribe Navajo "B" Std. 04 Co. of Calif. 188. Superior Lss.

SAN JUAN COUNTY, UTAH

This is to certify that the courses, distances and objects reflected on the plat to which this certificate is affixed were observed and compiled under my supervision and, according to my best knowledge and belief, are true and correct.

Division Civil Engineer - TEXACO Inc. Registered Professional Engineer-State of Texas Texace, Inc.
P. O. Bex 3109
Hidland, Texas

Attention: J. J. Velten, Division Civil Engineer

Gentlemen:

This is to acknowledge receipt of your notices of intention to drill Well No. Navajo Tribe Y - 1, which is to be located 300 feet from the south line and 660 feet from the west line of Section 4, Tourship 41 South, Range 24 East, SLIM, and Well No. Navajo Tribe Y - 2, which is to be located 1980 feet from the south line and 2140 feet from the west line of Section 4, Tourship 41 South, Range 24 East, SLIM, San Juan County, Utah.

Please be advised that insofar as this effice is concerned, approval to drill said wells is hereby granted.

This approval terminates within 90 days if the above mentioned walls are not spudded-in within said period.

Yours very truly,

OIL & GAS CONSERVATION CONMISSION

CLEON B. FEIGHT EXECUTIVE SECRETARY

CBFiep

oc: Phil McGrath, Dist. Eng. U. S. Geological Survey Farmington, New Mexico

Budget Bureau No. 42-R355.4. Approval expires 12-31-60.

U. S. LAND OFFICE Navajo SERIAL NUMBER LEASE OR PERMIT TO PROSPECT

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

	TATE WELL	CORPECTA		LO	G OF	OIL OR	GAS V	VEL	L
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Well N	0	Sec	T: 1-3 R	Me	eridian	SLM Co	ounty	San J	uan
Location	on 1980.	$\{ft, G^{N}\}$ of A	Line a	nd2140f	t. E. of W	Line of Sec	tion 4	Elev	ation 44
11	ie inform	ation given h	ierewith is	a comple	ete and corre e	ct record of the	well and a	ll work	done there
so far	as can be	determined f	rom all av	ailable re	cords.	X Tim	a de	•	
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Size						NG RECORD			
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Cable tools	were used from	fe	et to	feet,	and from	feet to fee
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						<del>d Jan. 12, 19</del> -6(
						100 % was oil;
		$^{-}$ sediment				410
If gas	well, cu. ft. per	24 hours	Gall	lons gaso	line per 1,000 cu	. ft. of gas
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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

### LOG OF OIL OR CAS WELL

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	ifter d	rilling	s_to_5435 led out f	'and	nge Nee <b>cement 1</b> 68: <b>to</b>	nc.5-1	/2" cas	ing, cer	ment	
4'' ' <b>C</b> E	erfora	tions	425 ' to 5	433' W	ith 409 Bolum	et eno	ts per : 15% acto	foot∤ / d. Swek	Acidized obed 20	<b>.</b>
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It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

HISTORY OF OIL OR GAS WELL

18-43094-2 U. S. GOVERNMENT PRINTING OFFICE

Granes S

### FORMATION RECORD—Continued

FROM-	ТО	TOTAL FEET	FORMATION
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All me	asurements	Tom dermie	Charles Charles and Arg
мом	33	The state of the s	floor, 10' above ground.
ra and and the second		r - Amakata II ili ili ili.	COLUMNIA DESCRIPTION
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(April 1952)						
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Form 9-331 b

#### (SUBMIT IN TRIPLICATE)

# UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Indian Agency	Measio

Allottee	
	14-20-603-544

### SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO ABANDON HELL	NOTICE OF INTENTION TO CHANGE PLANS  NOTICE OF INTENTION TO TEST WATER SHUT-OFF  NOTICE OF INTENTION TO REDRILL OR REPAIR WELL  NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF WATER SHUT-OFF	
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(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

			January 22	, 19_00
Nevajo Tribe "Y"  Well No. 2 is locate	d <b>1980</b> ft	. from $\binom{S}{S}$ line and	d 2140 ft. from W	line of sec.
SWi of Section 4	41-8	24-B	SLN	
(½ Sec. and Sec. No.)	(Twp.)	(Range)	(Meridian)	
Ratherford (Field)		county or Subdivision)	(State or	Territory)

The elevation of the derrick floor above sea level is 4476 ft.

#### DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Spudded at 1:00 A.M., December 17, 1960.59

Drilled 17-1/4" hole to 105' and cemented 95' of 13-3/8" O.D. casing at 105' with 125 sacks of cement. Cement circulated.

Drilled 11" hole to 1492' and cemented 1482' of 8-5/8" O.D. casing at 1492' with 900 sacks of cement. Cement circulated. Tested casing with 800# pressure for 30 minutes. Tested O.K.

I understand	that this plan of work must receive approval in writin	g by the Geological Survey before operations may be commenced.
Company	TEXACO Inc.	
Address	P. O. Box 817	
÷ -	Farmington, New Mexico	By C. H. M. Coal
		Title Asst. Dist. Sup't.

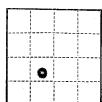
Form 9		b
(April	1952)	



#### (SUBMIT IN TRIPLICATE)



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# UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Allotte	e	1
Lease N	14-20-603-54	146

#### SUNDRY NOTICES AND REPORTS ON WELLS

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NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF.
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT.
NOTICE OF INTENTION TO PULL OR ALTER CASING.	SUPPLEMENTARY WELL HISTORY
NOTICE OF INTENTION TO ABANDON WELL	
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(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

				Jamery 20	, 19 <b>00</b>
Navajo Ti Well No		ed <b>1980</b> _ft.f	rom S line	and 2140 ft. from W	ine of sec.
swi of se	oc. 4	41-8	24-E	SLM	
(% Sec. and s	ec. No.)	(Twp.) San	(Range)	(Meridian)	·
(Field			ty or Subdivision)	(State or 7	Perritory)

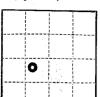
The elevation of the derrick floor above sea level is 476. ft.

#### **DETAILS OF WORK**

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Drilled 7-7/8" hole to 5435' and cemented 5424' of 5-1/2" 0.D. casing at 5435' with 250 sacks of cement. Top of cement 4700'. Tested casing with 1000# pressure for 30 minutes. Tested 0.K.

I understand that this plan of work must receive approval in writing by	the Geological Survey before operations may be commenced.
Company TEXACO Inc.	
Address P. O. Box 817	
Farmington, N. M.	By C. H. Melas
	Title Asst. Dist. Sup't.



#### (SUBMIT IN TRIPLICATE)

# UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Indian Agency	Navajo
Allottee	
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#### SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	Ľ
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.	<b></b>	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING.		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

		<b>January 26,</b> , 19 <b>60</b>	
Navajo Tribe "Y" Well No is loc	ated 1980 ft. from $\binom{\mathbb{R}}{\mathbb{S}}$ line and	2140 ft. from   line of sec. 4	•
SW t of Sec. 4	41-S 24-E	SIM	
(¼ Sec. and Sec. No.)	(Twp.) (Range)	(Meridian)	
Ratherford (Field)	(County or Subdivision)	(State or Territory)	

The elevation of the derrick floor above sea level is 4476 ft.

#### **DETAILS OF WORK**

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Total depth 5435'.

Perforated 5-1/2" casing from 5425' to 5433' with 4 jet shots per foot. Acidised perforations with 500 gallons of regular 15% acid. Perforated 5-1/2" casing from 5369' to 5373', 5378' to 5384' and 5404' to 5414' with 4 jet shots per foot. Blocked off perforations 5425' to 5433' with 100 gallons of Sal-Block and acidised upper perforations with 3,000 gallons of regular 15% acid.

I understand that this plan of work must receive approval in writing by	the Geological Survey before operations may be commenced.
Company TEXACO Inc.	
Addressox 817	
Farmington, New Mexico	By J. H. Mclas
	Title Asst. Dist. Sup't.



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#### Budget Bureau No. 42-R359.4. Approval expires 12-31-60.

	Approvai expires 12-51-00.
(SUBMIT IN TRIPLICATE)	Indian Agency Navajo

UNITED STATES				
DEPARTMENT OF THE I	NTERIOR			
GEOLOGICAL SURV	EY			

Allottee _		
Lenes No	14-20-603-544	16

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	1
NOTICE OF INTENTION TO TEST WAT		SUBSEQUENT REPORT OF ALTERING CASING	1 .
OTICE OF INTENTION TO REDRILL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR.	i i
OTICE OF INTENTION TO SHOOT OF	R ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	1
NOTICE OF INTENTION TO PULL OR	ALTER CASING	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON	WELL.	Installation of Pumping	X
	# TOPE =	Equipment	
(INDICA	TE ABOVE BY CHECK MARK	NATURE OF REPORT, NOTICE, OR OTHER DATA)	
		June 2	<u>, 19 <b>6</b>(</u>
avajo Tribe "Y" ell No2 is lo	cated1,980 ft. fro	om ${\mathbb{K} \atop S}$ line and <b>2.140</b> ft. from ${\mathbb{K} \atop W}$ line of	sec. 4
(¼ Sec, and Sec. No.)	(Twp.)	(Range) (Meridian)	
atherford	San	Juan Utah	
(Field)	(County	or Subdivision) (State or Territory)	
ate names of and expected depths	to objective sands; show siz ing points, and all c	ILS OF WORK  zes, weights, and lengths of proposed casings; indicate muddi ther important proposed work)	ing jobs, ceme
tate names of and expected depths t	to objective sands; show siz ing points, and all c	zes, weights, and lengths of proposed casings; indicate muddi	ing jobs, ceme
ompleted install:	ing pumping e	zes, weights, and lengths of proposed casings; indicate muddi	pumping gravit
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ompleted installi-25-60. On test ll in 24 hours. Inute.	ing points, and all calling pumping ending 5-27- Length of pu	res, weights, and lengths of proposed casings; indicate muddiother important proposed work)  equipment and well commenced to pumped 20 barrels of 410 mp stroke 84 with 14 stroke	pumpin gravit; s per
ompleted install: -25-60. On test il in 24 hours. inute.	ing points, and all colors of the length of purchase the color of the length of the le	res, weights, and lengths of proposed casings; indicate muddiother important proposed work)  equipment and well commenced  50 pumped 20 barrels of 410  mp stroke 84 with 14 stroke	pumping gravit; s per





#### PHILLIPS PETROLEUM COMPANY P. O. Drawer 1150 Cortez, Colorado

May 11, 1964

Utah Oil & Gas Conservation Commission 310 Newhouse Building Salt Lake City 11, Utah

Attention: Mr. Cleon B. Feight

Dear Sirs:

In accordance with Rule E-4 of the Utah General Rules and Regulations, we wish to advise that the following wells located on the Ratherford Unit in San Juan County, Utah, were converted to water injection wells.

Old Well	New Well No.	Date Converted	Inje <b>ctio</b> n Rate	Injection Pressure
E14-23	E14W23	5-6-64	158 BWPD	26 <b>00#</b>
4-23	4W23	5-9-64	230 BWPD	2 <b>600#</b>

Details of the above conversions will be furnished on USGS Form No. 9-331b in the near future.

Very truly yours,

PHILLIPS PETROLEUM COMPANY

C. M. Boles

District Superintendent

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## TED STATES

SUBMIT IN TR

Form approved. Budget Bureau No. 42-R1424.

DEPAR	TMAT OF THE INTE	RIOR verse side)	5. LEASE DESIGNATIO	N AND SERIAL NO.
	GEOLOGICAL SURVEY  OTICES AND REPORTS  possals to drill or to deepen or plu  ACATION FOR PERMIT—" for such		6. 14x20, 6031 Tribal B	TRIBE NAME
1. OIL GAS	Water Injection Nol		7. UNIT AGREEMENT  8. FARM OR LEASE N  9. VALUE TOTAL	AMB
4. LOCATION OF WELL (Report focation See also space 17 below.) At surface	150 Any CAT he mandade Winds		10. FIELD AND POOL, Greator Aret 11. SEC., T., R., M., OI SURVEY OR AR	OR WILDCAT
14. PERMIT NO.	15. ELEVATIONS (Show whether	DF, RT, GR, etc.)	12. COUNTY OR PARIS	SH 13. STATE
	4476 DF		San Juan	Utah
16. Check		Nature of Notice, Report, or	Other Data QUENT REPORT OF:	
TEST WATER SHUT-OFF FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL	PULL OR ALTER CASING MULTIPLE COMPLETE ABANDON* CHANGE PLANS	WATER SHUT-OFF FRACTURE TREATMENT SHOOTING OR ACIDIZING (Other)	REPAIRING ALTERING ABANDONN	CASING
(Other)  17. DESCRIBE PROPOSED OR COMPLETED proposed work. If well is dir nent to this work.)*	OPERATIONS (Clearly state all pertinectionally drilled, give subsurface le	Completion or Recom	ts of multiple completion pletion Report and Log is, including estimated dical depths for all mark	orm.) ate of starting an

Acidize water injection well with 1000 gallons regular acid, 200 gallons Sol Block, and 2000 gallons regular acid to increase injection rate.

Present Injection Rate: 3 BPD at 2800#.

. I hereby cortify that the foregoing is true and correct		
SIGNED Bela dis	TITLE	DATE
C li Polos	Area Superintendent	0-11-04
(This space for Federal or State office use)		
APPROVED BY	TITLE	DATE
CONDITIONS OF APPROVAL, IF ANY:		

Form 9-331

## ED STATES

SUBMIT IN TR

Form approved.
Budget Bureau No. 42-R1424.

(May 1963)	EPARTMENT OF THE INTER	OR (Other instruction on reverse side)	5. LEASE DESIGNATION A	ND SERIAL NO.
	GEOLOGICAL SURVEY		14-20-603-5	W6
SUNDR' (Do not use this form	Y NOTICES AND REPORTS  of for proposals to drill or to deepen or plug  "APPLICATION FOR PERMIT—" for such p	ON WELLS back to a different reservoir. roposals.)	6. IF INDIAN, ALLOTTEE	Market Commence
OIL GAS WELL WELL	other water Injection of		7. UNIT AGREEMENT NAM	E
2. NAME OF OPERATOR	strolmm Campany	6 dan dia	8. FARM OR LEASE NAME	4423 erford Und
3. ADDRESS OF OPERATOR			9. WELL NO.	
	Promor 1150, Cortes, Colors		A-23	
See also space 17 below.) At surface	t location clearly and in accordance with any		10. FIELD AND POOL, OR  11. SEC., T., R., M., OR BL	<u> </u>
	730 From South Line, 2140 i 38/4 200. 4	TOR MOSC LLRO, DUC. 4	SURVEY OR AREA	S SIF
14. PERMIT NO.	15. ELEVATIONS (Show whether D	F, RT, GR, etc.)	12. COUNTY OR PARISH	13. STATE
	14.76 DF		an Juan	Utah
TEST WATER SHUT-OFF FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL (Other)	PULL OR ALTER CASING MULTIPLE COMPLETE ABANDON* CHANGE PLANS	Completion or Recomp	s of multiple completion o	n Well
nent to this work.	MPLETED OPERATIONS (Clearly state all pertine is directionally drilled, give subsurface loc			
	injection well with 3000 ; ack up for water injection.		o increase inje	ction
Previous Inject	tion Rate: Injected 3 Barr	in 24 hrs at 2000.		
Present Injecti	ion Rate: Injected 128 38	in 24 bre at 2700%.		

18. I hereby certify that the foregoing is true and correct SIGNED	TITLE	Area Supt.	DATE 6-23-64
(This space for Federal or State office use)			
APPROVED BYCONDITIONS OF APPROVAL, IF ANY:	TITLE _		DATE

## TED CTATEC

SUBMIT IN TRANSPA

Form approved.

Мау	DEPARTMENT OF THE	E INTERIOR (Other instruction of the state o	Te- Sudget Bureau No. 42-R1424.  5. LEASE DESIGNATION AND SERIAL NO.
	SUNDRY NOTICES AND RE (Do not use this form for proposals to drill or to dec Use "APPLICATION FOR PERMIT-	EPORTS ON WELLS epen or plug back to a different reservoir.  —" for such proposals.)	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
	OIL CAS OTHER SALOR INJECTION	rtion Well	7. UNIT AGREEMENT NAME
2. 1	NAME OF OPERATOR PAILLIDS PETPOLOUS COMPANY		Ratherford Unit
3. 4	ADDRESS OF OPERATOR P. O. Drawer 1150, Cortes, Col		or efly Texaco Nav. Tribe Y#4
	LOCATION OF WELL (Report location clearly and in accordance also space 17 below.) At surface  N. 1/4 of Sec. 4, 1780 F31.		10. FIELD AND POOL, OR WILDCAT  11. SEC., T., B., M., OR BLK. AND SURVEY OR AREA
			4-415-24E, SIX
14.	PERMIT NO. 15. ELEVATIONS (SI	how whether DF, RT, GR, etc.)	12. COUNTY OF PARISH 13. STATE
16.		o Indicate Nature of Notice, Report,	or Other Data BEEQUENT REPORT OF:
	NOTICE OF INTENTION TO:	801	DSEEDERT MAZONI OZI
	TEST WATER SHUT-OFF PULL OR ALTER CASIN FRACTURE TREAT MULTIPLE COMPLETE SHOOT OR ACIDIZE ABANDON*		ALTERING CASING  ABANDONMENT*
	REPAIR WELL CHANGE PLANS (Other)	(Other) (Note: Report re	esults of multiple completion on Well completion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

Moved in and rigged up Wall Service Company unit. Fulled rods and tubing and laid down. Ran 172 jts. 2" EUE tubing with 1.9" (D) Marlex Driscopipe Ser. 7000 Liner and Baker Model A Tension Packer with seal mipples; set packer at 5310.31'. Started hooking up for Water Injection. Started injecting water at 11:00 A.M. 5-9-64. Changed well number from 4-23 to 4/23 effective 5-9-64 and well classification from Oil well to Water Injection Well due to conversion to Water Injection effective 5-9-64.

Previous Production from Greater Anoth - Paradox Formation of Desert Creck Zone: 7 BOPD, 16 NOPOPD, 5 BAPD

Present Injection Rate: Injected 230 BW in 24 hours at 2600#.

and the control of th	1.		
18. I hereby certify that the foregoing is true and correct  SIGNED TITLE Area Superintersion.		6-23-64	
• 33 • 173440			
(This space for Federal or State office use)	DATE		
APPROVED BY TITLE			

Form 9-331 (May 1963)

### TED STATES SUBMIT TOF THE INTERIOR verse side) GEOLOGICAL SURVEY

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

	:	<u> </u>	20	-	CO:	-5	Ы	6	
•	T 77	TATELE	4 37	AT	r Omn	ינוינוים	No	מיתי	11

(Do not use this form for propos Use "APPLICA"  1. OIL WELL OTHER  2. NAME OF OPERATOR  P. O. Proposition of See also space 17 below.)	1150, Cortez, Colorado learly and in accordance with any St	k to a different reservoir. osals.)  ate requirements.*	7. UNIT AGREEMENT  8. FARM OR LEASE N  9. WELL NO.  10. FIELD AND POOL,  TO SURVEY OR AB	NAME  AME  AME  COR WILDCAT  R BLK. AND
11	15. ELEVATIONS (Show whether DF, R	T. CP. etc.)	12. COUNTY OR PAR	SH 13. STATE
14. PERMIT NO.		.,,	200	704 - L
	4476 DF		San Juan	Utah
TEST WATER SHUT-OFF FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL (Other)  17. DESCRIBE PROPOSED OR COMPLETED OPPoposed work. If well is directionent to this work.)*	PULL OR ALTER CASING MULTIPLE COMPLETE ABANDON* CHANGE PLANS ERATIONS (Clearly state all pertinent onally drilled, give subsurface location	WATER SHUT-OFF FRACTURE TREATMENT SHOOTING OR ACIDIZING  (Other) (NOTE: Report results Completion or Recompl details, and give pertinent dates, ns and measured and true vertica	of multiple completicetion Report and Log	CASING MENT*  on on Well form.) date of starting any
rate, hooked back up	**		o increase in	ijectien
Previous Injection Ra	te: Injected 3 B/ in	24 hrs at 2900#.		
Present Injection Rat	e: Injected 128 BW in	1 24 hrs at 2700#.		

18. I hereby certify that the foregoing is true and correct				
SIGNED Con Boles	TITLE _	Area Supt.	DATE _6	23-64
(This space for Federal or State office use)				
ADDROVED BY	TITLE		DATE	
CONDITIONS OF APPROVAL, IF ANY:	*******			

#### ED STATES T OF THE INTERIOR GEOLOGICAL SURVEY

SUBMIT (Other in verse side)

Budget Bureau No. 42-R1424. 5. LEASE DESIGNATION AND SERIAL NO.

14-20-603-5446 6. IF INDIAN, ALLOTTEE OR TRIBE NAME

#### SUNDRY NOTICES AND REPORTS ON WELLS

V	)	(Do not		form	for propo	sals to d	rill or t	deepen or MIT—" for	plug	back to	a different	reservoir.
	oir		GAS			ete	ym Tn	loots on	To take	37		

Ne	vajo	Tribe

	Use "APPLICATION FOR PERMIT—" for such proposals.)	
1.		7. UNIT AGREEMENT NAME
	WELL GAS WELL OTHER Cater Injection Well	
2.	Phillips Petroleum Company ( )	8. FARM OR LEASE NAME SW-I-4192 Ratherford Unit
3.	P. C. Drawer 1150, Cortez, Colorado	(Formerly Texaco Nav. Tribe Y#2
4.	LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface  No. 1/4, of Sec. 4, 1980 PSL, 2140 FWL, Sec. 4	10. FIELD AND POOL, OR WILDCAT  11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
		4-435-24E, SIM

13. STATE

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

12. COUNTY OF TARGET Sen Juan Utah

14. PERMIT NO.

4476 DF

16.

#### Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF  FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL (Other)  PULL OR ALTER CASING MULTIPLE COMPLETE ABANDON* CHANGE PLANS	WATER SHUT-OFF  FRACTURE TREATMENT SHOOTING OR ACIDIZING  (Other)  (Other)  (NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

Moved in and rigged up Well Service Company unit. Fulled rods and tubing and laid down. Ran 172 jts. 2" EUE tubing with 1.9" OD Marlox Oriscopipe Ser. 7000 Liner and Saker Model A Tension Packer with seel nipples; set packer at 5310.31'. Started booking up for Water Injection. Started injecting water at 11:00 4.M. 5-9-64. Changed well number from 4-23 to 4/23 offective 5-9-64 and well classification from Oil Well to Water Injection Well due to conversion to Water Injection effective 5-9-64.

Previous Production from Greater Anoth - Paradox Formation of Desert Creek Zone: 7 BOPD, 16 MCFGFD, 5 BMPD

Present Injection Rate: Injected 230 1% in 24 hours at 2600%.

8. I hereby certify that the foregoing is true and correct		
SIGNED . M. Boles	TITLE Area Superintenient	DATE _6-23-64
(This space for Federal or State office use)		
ADDROUGD DV	TITLE	DATE
APPROVED BY CONDITIONS OF APPROVAL, IF ANY:		

Form 9–331 May 1963)	D STATES	SUBMIT RATE E*		au No. 42-R1424.
DE	PARTMENT OF THE INTERI GEOLOGICAL SURVEY	OR verse side)	5. LEASE DESIGNATION	AND SERIAL NO.
	NOTICES AND REPORTS C		6. IF INDIAN, ALLOTTE	E OR TRIBE NAME
	or proposals to drill or to deepen or plug b 'APPLICATION FOR PERMIT—" for such pr	ack to a different reservoir.	327570	
OIL GAS WELL WELL	OTHER Water Injection	Wal1	7. UNIT AGREEMENT N.	AME
2. NAME OF OPERATOR	Phillips Petroleum Co.	Z. Jaco	8. FARM OR LEASE NA	
3. ADDRESS OF OPERATOR	G. Frawer 1150, Cortes, Co	elerede 6132	9. WELL NO.	
4. LOCATION OF WELL (Report   See also space 17 below.)	location clearly and in accordance with any		10. FIELD AND POOL, C	
At surface	FSL; 2140' FWL, SW/4 Sec.	<b>A</b>	11. SEC., T., E., M., OR SURVEY OR AREA	BLK. AND
14. PERMIT NO.	15. ELEVATIONS (Show whether DF	, RT, GR, etc.)	12. COUNTY OF PARISI	13. STATE
16. CI	heck Appropriate Box To Indicate N	lature of Notice, Report, or C	ther Data	
NOTICE	OF INTENTION TO:	SUBSEQU	ENT REPORT OF:	
TEST WATER SHUT-OFF	PULL OR ALTER CASING	WATER SHUT-OFF	BEPAIRING	<del></del>
FRACTURE TREAT	MULTIPLE COMPLETE	FRACTURE TREATMENT SHOOTING OR ACIDIZING	ALTERING (	
SHOOT OR ACIDIZE	ABANDON*  CHANGE PLANS	(Other)		
(Other)		(Note: Report results Completion or Recompl	of multiple completion etion Report and Log fo	on Well orm.)
On Cutober 13, 196 gallons 28% acid : resumed injection.	56 acidised Deport Creek p and 1000 gallons gelled wa	erforations 5369-5433 ter in two stages. H	OA with 15,0 ooked back up	and
PERVIOUS INJECTIO	N SATE: 17 BWPD at 2150f.			
PRESENT INJECTION	MATE: 70 BWPD at 2200%.			
	meters to make the world			
18. I hereby certify that the f	oregoing is true and correct		·. ·	
SIGNED	그는 집에 집작하다 하다는 그 사람들이 되는 것이 없었다.	triot superintendent	DATE	8-66
(This space for Federal or	State office use)			
APPROVED BY	TITLE		DATE	
CONDITIONS OF APPRO				

REPAIR WELL

SHOOT OR ACIDIZE

# GEOLOGICAL SURVEY

SUBMIT IN

FRACTURE TREATMENT

(Other)

SHOOTING OR ACIDIZING

Form approved. Budget Bureau No. 42-R1424.

LEASE DESIGNATION AND SERIAL NO.

_	6.	IF	INDIAN,	ALLO	TTEE (	DR 1	RIBE	NAME

ABANDON MENT*

SUNDRY	NOTICES	AND	REPORTS	ON	WELLS	

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

	(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  Use "APPLICATION FOR PERMIT—" for such proposals.)	
ī.	OIL GAS WELL OTHER Water Injection Well	7. UNIT AGREEMENT NAME
2.	NAME OF OPERATOR  Phillips Petroleum Co. 2467.20	8. FARM OR LEASE NAME RETHORFORM Unit
3.	ADDRESS OF OPERATOR  Drawer 1150, Cortex, Colorado 81321	9. WELL NO.
1.	LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*  See also space 17 below.)  At surface	10. FIELD AND POOL, OR WILDCAT Greater Anoth
	1980' F5L; 2140' FWL, SW/4 Sec. 4	11. SEC., T., R., M., OR BLK. AND SURVEY OR ARBA
14.	PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, GR, etc.)	12. COUNTY OF PARISH 13. STATE
6.	Check Appropriate Box To Indicate Nature of Notice, Report, or	Other Data
	NOTICE OF INTENTION TO:	QUENT REPORT OF:
	TEST WATER SHUT-OFF PULL OR ALTER CASING WATER SHUT-OFF FRACTURE TREAT MULTIPLE COMPLETE FRACTURE TREATMENT	REPAIRING WELL ALTERING CASING

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) (Other) 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

In attempt to increase injection rate, acidize water injection well #4W23 with 15,000 gallons 26% asid and return to injection.

Present Injection Sate: 17 BMPD at 2150%.

18. I hereby certify that the foregoing is true SIGNED C. N. Belee	and correct Dist. Supt.	9-23-66 DATE
(This space for Federal or State office use	)	
APPROVED BY	TITLE	DATE

Form	9-331
(May	1963)

REPAIR WELL

(Other)

Form approved

(May 1963)	UNDED STATES SUBMIT IN TRIP	Budget Buleau 110. 12 milian
(1111) 1000)	DEPARTMENT OF THE INTERIOR (Other Instruction of the Interior	5. LEASE DESIGNATION AND SERIAL NO.
	GEOLOGICAL SURVEY	14-25-009-3440
(Do not	SUNDRY NOTICES AND REPORTS ON WELLS use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
OIL WELL	GAS WELL OTHER Water Injection Well	7. UNIT AGREEMENT NAME
2. NAME OF OPE	Phillips Petrolous Co.	8. FARM OR LEASE NAME
3. ADDRESS OF	P.O. Drawer 1150, Cortes, Colorado 6132	9. WELL NO.
4. LOCATION OF See also space At surface	_	10. FIELD AND POOL, OR WILDCAT
	1960' FEL; 2140' FeL, SW/A Sec. 4	11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA
		<b>6-24-633</b> 6-14-4-
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.)	12. COUNTY OR PARISH 13. STATE

SUBSEQUENT REPORT OF: NOTICE OF INTENTION TO: REPAIRING WELL WATER SHUT-OFF PULL OR ALTER CASING TEST WATER SHUT-OFF ALTERING CASING MULTIPLE COMPLETE FRACTURE TREATMENT FRACTURE TREAT ABANDONMENT* SHOOTING OR ACIDIZING ABANDON* SHOOT OR ACIDIZE

CHANGE PLANS (Other) (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

On Cotober 13, 1966 soldied Desert Creek perforations 5369-5433' OA with 15,000 gallone 28% acid and 1000 gallone galled water in two stages. Heaked back up and resumed injection.

PREVIOUS INJECTION MATE: 17 BMPD at 2150f.

PRESENT INJECTION RATE: 70 BWPD at 2200%.

8. I hereby certify that the foregoing is true and c	correct District Superintendent	DATE	12-0-66	
(This space for Federal or State office use)				
APPROVED BY	TITLE	DATE		<del></del>

#### STATE OF UTAH DIVISION OF OIL, GAS, AND MINING **ROOM 4241 STATE OFFICE BUILDING** SALT LAKE CITY, UTAH 84114 (801) 533-5771

FORM NO. DOGM-UIC-1 (Revised 1982)

(RULE I-5 & RULE I-4)

PHILLIPS PETROLEUM COMPANY  ADDRESS P.O. BOX 2920	CAUSE NO. C-3(B)
CASPER, WYOMING  INDIVIDUAL PARTNERSHIP X CORPORATION  FOR ADMINISTRATIVE APPROVAL TO DISPOSE OR  INJECT FLUID INTO THE 4W23 WELL  SEC. 4 TWP. 41S RANGE 24E  SAN JUAN COUNTY, UTAH	ENHANCED RECOVERY INJ. WELL DISPOSAL WELL COLUMN CO

#### **APPLICATION**

Comes now the applicant and shows the Corporation Commission the following:

1. That Rule I-5 (g) (iv) authorizes administrative approval of enhanced rcovery injections, disposal or LP Gas storage operations.

Lease Name	Well I	No.	Field			County
Ratherford Unit		4W23	3 Greater Ane		^ Aneth	San Juan
Location of Enhanced Recovery Injection or Disposal Well 4W23		Sec. <u>4</u>		Ţ	wp. 415	
New Well To Be Drilled Yes 🛭 No 🖸	O	d Well To Be Conve Yes			Casing Test Yes	. □ No 🕅 Date
Depth-Base Lowest Known Winga Fresh Water Within ½ Mile <u>1550'</u>	Base Lowest Known Wingate  Does Injection Zone Contain  Oil-Gas-Fresh Water Within ½ Mile YES ♥ NO				State What Oil & Gas	
Location of Desert Creek Injection Source(s) San Juan			Geologic Nam and Depth of		Desert C	reek (5567') Juan River (Surface)
Geologic Name of Desert C	reek	I	Depth of Injectinterval5	369	_ <b>to</b> _ 5433	
a. Top of the Perforated Interval: 5369		b. Base of Fresh	Water:	c. 1	ntervening Thi 38]	ckness (a minus b) 9
Is the intervening thickness sufficien without additional data?	t to show	fresh water will be	protected YES N	<b>)</b>	See	Attachment #4
Lithology of Intervening Zones	See	Attachment	#1	_		
Injection Rates and Pressures		ıximum		-		B/D
SD 5/1/76						PSI
The Names and Addresses of Those	to Whom	Notice of Application	on Should be Se	nt.		
Navajo Tribe, Mineral	s Dep	t., P.O. Box	x 146, Wi	ndow	Rock, AZ	86515
Superior Oil, P.O. Bo	x 453	O, The Wood	lands, TX	77	380	
Texaco Inc., P.O. Box	2100	, Denver, CO	80201			
Southland Royalty, 10	00 Fo	rt Worth Clu	ub Tower,	For	t Worth,	TX 76102
Nate of Wyoming			PHI	LIP	S PETROLE	EUM COMPANY
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		)			A	pplicant
County of Natrona  Before me, the undersign known to me to be the person path states, that he is duly a therein, and that said report in	uthoriz	ed to make the ind correct.	apove repor	and	that he has	s knowledge of the facts state
Suscribed and sworn to		The Charles of American Commence of		<u> Lip</u>	<del>t</del> , 19	<u>83</u> イン、
SEAL Ý	County C		n -	otarv	Denald Public in an	nd for Natrona Co., Wyo
my commission expire	Natrona		Activities A	/		

#### FORM DOGM-UIC-1 (continued)

#### INSTRUCTIONS

- 1. Attach qualitative and quantitative analysis of representative sample of water to be injected and a qualitative and quantitive analysis of the injection formation of water.
- 2. Attach plat showing subject well and all known oil and gas wells, abandoned, drilling and dry holes within one-half mile, together and with the name of the operator(s).
- 3. Attach Drillers Log (Form DOGM-UIC-2). (Appropriate Surety must be on file with Conservation Division or appropriate government agencies.)
  - 4. Attach Electric or Radioactivity Log of Subject well (if released).
- 5. Attach schematic drawing of subsurface facilities including; Size, setting depth, amount of cement used measured or calculated tops of cement surface, intermediate (if any) and production casings; size and setting depth of tubing; type and setting depth of packer; geologic name of injection zone showing top and bottom of injection interval.
- 6. If the application is for a NEW well the original and six (6) copies of the application and three (3) complete sets of attachments shall be mailed to the Division. For EXISTING well applications (Rule I-4) only ONE copy of the application and ONE complete set of attachments are required to be mailed to the Division.
- 7. The Division is required to send notice of application to he surface owner of the land within one-half mile of the injection well and to each operator of a producing leasehole within one-half mile of the injection well. List all required names and addresses in the appropriate space provided on the front of this form.
- 8. Notice that an application has been filed shall be published by the Division in a newspaper of general circulation in the county of publication before the application is approved. The notice shall include the name and address of applicant, location of proposed injection or disposal well, injection zone, injection pressure and volume. If no written objection is received within 15 days from date of publication the application may be approved administratively.
- 9. A well shall not be used for injection or disposal unless completed machine accounting Form DOGM-UIC-3b is filed by January 31st each year.
- 10. Approval of this application, if granted, is valid only as long as there is no substantial change in the operations set forth in the application. A substantial operation change requires the approval of a new application.
  - 11. If there is less intervening thickness required by Rule I-5 (b) 4, attach sworn evidence and data.
- 12. For enhanced recovery projects, information required by Rule I-4 which is common to more than one well, need be reported only once on the application.

#### CASING AND TUBING DATA

NAME OF STRI	NG SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
Surface	13-3/8"	105	125	Surface	Returns
Intermediate	8-5/8"	1492	900	Surface	Returns
Producti <b>on</b>	5-1/2"	5434	250	4700	Logs
Tubing	2"	5340	Nam Baker Mode	e-Type-Depth of	Tubing Packer Pkr at 5340,31
Total Depth 5435	Geologic Name - Inj Desert Creek	. Zone Dept	h - Top of Inj. In 5369	terval Depth	- Base of Inj. Interval 5433

#### PLEASE TYPE OR USE BLACK INK ONLY

FORM	DO	SM.	UIC-2
(Rule	1-5	(b)	2
(Rule (Revi:	sed	19	82)

(To be filed within 30 days after drilling is completed)

i	1	4-	2	0	_	6	0	3	-	5	4	4	$\epsilon$

<i>J</i> J	- 5-	140	
			1
Ш	ASE	NO.	

API	NO. 43-037-16389
	640 Arres

DEPARTMENT OF NATURAL RESOURCES AND ENERGY DIVISION OF OIL, GAS, AND MINING Room 4241 State Office Building

Salt Lake City, Utah 84114 county San Juantec 4 TWP. _41S RGE. 24E COMPANY OPERATING Phillips Petroleum Company OFFICE ADDRESS P.O. Box 2920

STATE ZIP Wyoming 82602 town _ Casper WELL NO. 4W23 FARM NAME _

DRILLING STARTED 12-17 1959 DRILLING FINISHED 1-6 19 60 DATE OF FIRST PRODUCTION 1-12-60 COMPLETED 2-25-60 WELL LOCATED NE & SW

1980 FT. FROM SL OF 1/4 SEC. & 2140 FT. FROM WL OF 1/4 SEC.

Locate Well Correctly and Outline Lease

GROUND __4465 DE . ELEVATION BERRICK FLOOR

Single Zone .

**Multiple Zone** 

Comingled .

#### LOCATION EXCEPTION

#### OIL OR GAS ZONES

Name	From	To	Name	From	То
Desert Creek I	5369	5433			

#### CASING & CEMENT

	Co	sing Set		Csg. Test	Cemen	ement		
Size	Wgt.	Grade	Feet	Psi	Sax	Fillup	Тор	
13-3/8	" 40#	H-40	105	No Test	125	No Rec.	Surface	
8-5/8	" 24#	J-55	1492	800#	900	No Rec.	Surface	
5-1/2	" 14#	J <b>-</b> 55	5434	1000#	250	No Rec.	4700'	
				. ,				
		<u> </u>			TOTAL	рерти 54:	35'	

PACKERS	SET Baker	6	5340'	(Model	"A"	Tension	Pkr)
DERTH	Dakei	C	JJ70	(130000)	, ,	I CITS TOIL	1 15 1 /

THIS FORM MUST ALSO BE ATTACHED WHEN FILING PLUGGING FORM DOGM-UIC-6

COMPLETION	£	TEST	DATA	BY	PRODUCING	FORMATION
					•	<b>3</b>

CORMATION Des	ert Creek I		
PACING & SPACING	40 acre #C-3(B)		
CLASSIFICATION (DISPOSAL WELL, ENHANCED RECOVERY, LP GAS STORAGE)	Enhanced Recovery	·	
PERFORATED	5369-5373		
	5374-5384		
INTERVALS	5404-5414		
	5425-5433		
ACIDIZED?	10/13/66 15000 gal		
	Acid		
FRACTURE TREATED?	. No	,	

ITIAL TEST DATA	Converted to	Injector 5/9,	/64	
Date	5/9/64			
Oil, bbl./day		·		
Oil Gravity				
Gas, Cu. Ft./day	CF	d		CF
Gas-Oil Ratio Cu. Ft./Bbl.	-			
Water-Bbl./day	230		•	
Pumping or Flowing	Pumping			
CHOKE SIZE			t.	
FLOW TUBING PRESSURE	2600		9.7	

A record of the formations drilled through, and pertinent remarks are presented on the reverse. (use reverse side)

	_
and a second property of the second property	•
I, the undersigned, being first guly swom upon oath, sigie that this well record is true, correct and complet	•
to the state of th	
I, the undersigned, being first duly swem upon eath, state that this well record is true, correct and complet according to the records of this office and to the best of my knowledge and belief.	

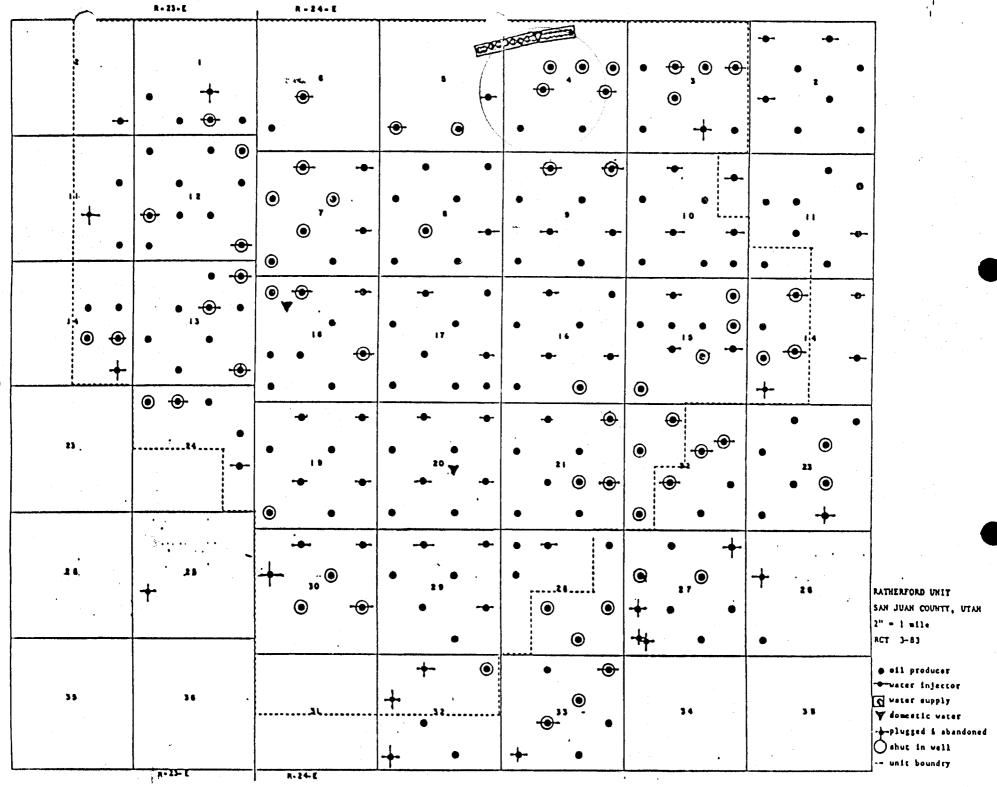
A.E. Stuart, Area Manage

Name and title of representative of company

Subscribed and sworn before me this -

Casper

WELL: 4W23	
LOCATION: NESW Secott-415-	24E COMPLETION: 5.9.64
"FIELD: GDEATER ANETH	W COMPLETION S T
RESERVOIR: Desert Creek:	<del></del>
RKB 4476	SURFACE CASING: 133/8" 48#
GL 4465' 105'	H-40
<u> 705                                   </u>	
₹;\	95/0" 211=
(1)	INTERMEDIATE CASING! 078 29
(4)	INTERMEDIATE CASING: 85/8"24"
<b>\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\</b>	PRODUCTION CASING!
1492'	PRODUCTION CASING: 51/2" 14#
PERFORATIONS:	
<u>5369-5373</u> 5374-5384	(        (
5404-5414	)
5425 - 5433	\
	<b>/                                    </b>
	<b>}                                    </b>
<b>&gt;</b>	? <b>                                    </b>
(	
}	PACKER: Baker model "A" TENSION PKr@ 5340.31
	"A" TENSION PLY @ 5340.31
·	TubING: 2" @ 5340.31
}	<b>}                                    </b>
4700'	/         {
1700	
~21/A 2)	
<u>5340.3</u>	
<i>(</i>	5369'-
#	
.# #	<u>5433</u>
РВТD: <u>5435-</u>	
OTD:	<b>建产会教</b>
<u>5434'</u> [	四次公司
\	Phillips Petroleum Company



CL1-12A (REV. 1964)



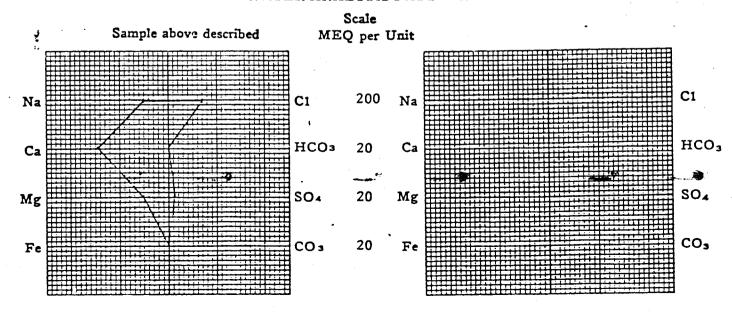
#### CHEMICAL & GEOLOGICAL LABORATORIES

P. O. Box 2794 Casper, Wyoming

#### WATER ANALYSIS REPORT

	Phillips Petroleum	Co.	DATE	5-27-83	LAB NO_	W30480
WEDD 110	Rutherford Unit		LOCATION			
FIELDS	San Juan		FORMATION			
COUNT 1	Jtah .		INTERVALSAMPLE FROM_			•
SIAIE			SAMPLE FRUM_			
22111222	Speci	fic gravity (	68 ⁰ F		- 1.0646	
REMARKS & CO			g/1			
			/1			
			3/1			
Cations  Sodium Potassium Lithium Calcium Magnesium	mg/1 - 24574 - 396	meq/1 1068.99 10.14 	Anions  Sulfate Chloride Carbonate Bicarbonate Hydroxide Hydrogen sulfide			meq/1 24.75 1466.40 0.00 3.12 - - 1494.27
Total dissolved so		85655 86344 7.4	Specific resistance Observed Calculate	@ 68°F.:	0.095	_ ohm-meters _ ohm-meters

#### WATER ANALYSIS PATTERN



Formation Water

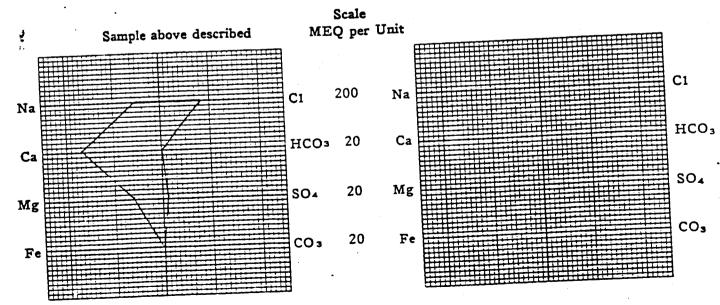
CHEMICAL & GEOLOGICAL LABORATORIES

P. O. Box 2794 Casper, Wyoming

### WATER ANALYSIS REPORT

WAILN	WIAITE T DOD			
OPERATOR Phillips Petroleum Compan WELL NO Ratherford Unit FIELD	Y DATE LOCATION FORMATION INTERVAL SAMPLE FROM	#1	Free wate	
REMARKS & CONCLUSIONS:				
Sodium	Anions		mg/1 1380 63000 0 151	meq/1 28.70 1776.60 0.00 2.48  1807.78
1	03633 Specific resistar 04549 Observ 7.3 Calcula	ved	0.087	ohm-meter

### WATER ANALYSIS PATTERN



(Na value in above graphs includes Na. K. and Ll)

NOTE: Mg/1=Milligrams per liter Meq/1= Milligram equivalents per liter

Sodium chloride equivalent=by Dunlap & Hawthorne calculation from components

# CHECKLIST FOR INJECTION WELL APPLICATION AND FILE REVIEW

Operator: Philips	Well No. Ratherful Unt 4423
	48 Sec. 4 API# 43-037-16389
	WellEnhanced Recovery Well
\$m	YES NO
UIC Forms Completed	
Plat including Surface Owners. and wells of available recor	Leaseholders,
Schematic Diagram	
Fracture Information	
Pressure and Rate Control	
Adequate Geologic Information	
Fluid Source	Quest but
Analysis of Injection Fluid	Yes No TDS 8545
Analysis of Water in Formation to be injected into	n Yes TDS/03,63
	Maryo Depth 1550
Number of wells in area of re	view Prcd. 4 P&A
	Water
Aquifer Exemption	Yes NA
, Mechanical Integrity Test	Yes No V
	DateType
Comments: 10 C 4700	
B	
Reviewed by:	

(November 1983) (Fermerly 9-331)	UNITED STATES DEPARTMENT OF THE INT BUREAU OF LAND MANAGE		Expires August 31, 1985 Lucas sessoration and small so. 14-20-603-5446
SUNDA	Y NOTICES AND REPOR	TS ON WELLS	Navajo
OFT OAS TO STREET	orem Water Injection i	Well	V. othe attended Same  SW-I-4192  G. Sam to these Same
Phillips 011 (	ompany , Casper, WY 82602		Ratherford Unit
	t location clearly and in accordance [Big	CEMED-ur.	#4W23 16. Fund allo rece, on windcar Greater Aneth
1980' FSL, 21	40' FWL JUL	1 0 1985	Sec. 4-T41S-R24E
14. PREMIT NO. 43-037-16389	18. BLEVATIONS (Shop port)	MUN OF THE	13. COURTY OF PARISH 18. STATE San Juan Utah
	Check Appropriate Box To Indica		Other Date
PRACTURE TREAT SHOOT OR ACIDER REPAIR WELL (Other) Roturn	PCLL OR ALTER CASING MULTIPLE COMPLETE ABANDON* CHANGE PLANE  to Injection	WATER SECT-OFF FRACTURE TREATMENT SECOTING OR ACEDISING (Other)	SEPARATE WELL  ALFRESHING CASSING  ABARDON MESTY*  Its of multiple completion on Wall  spletten Report and Log form.)
It is proposed	l to return Ratherford Un er performing minor surf	it #4W23 to Zone I	en including estimated date of starting any lical depths for all markers and some perti-
			·
5-BLM, Farming 2- Utah O&G CC 1- P. J. Adams 1- B. Conner, 1- J. R. Weich 1- C. M. Ander: 1- File RC	, Salt Lake City, Utah on 318 B-TRW brodt		
8. I bereby certify than the fo	regular le true and correct		
SIGNED A. E.	Stuart TITLE	Area Manager	DATE July 5, 1985
APPROVED BY MICONDITIONS OF APPROV		11 C Marings	DATE 7/11/85

*See Instructions on Reverse Side

### UTAH DIVISION OF OIL, GAS AND MINING CASING-BRADENHEAD TEST

OPERATOR: Phi	llips	Petrole	Um				. ·
FIELD: Grea	ter A	neth		LEASE:	Rather ford		
WELL # 4w	23			SEC	TOWNSHIP 4/5	_RANGE_	24E
STATE FED. F.	EE DEPT	гн <u>543</u> 3	TYP	PE WELL IN	JW MAX. INJ.	PRESS.	<del></del>
TEST DATE		· · · · · · · · · · · · · · · · · · ·					
CASING STRING	SIZE	SET AT	CMT	PRESSURE READINGS	REMARKS		FUTURE
SURFACE	133/8	105	125		52		
INTERMEDIATE	8 5/8	1492	900	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		
PRODUCTION	5/2	5434	250	<del></del>			
	·:						
TUBING	2"	5340	Mod	del A	Paker		
				PRESSURE			
CASING STRING	SIZE	SET AT	CMT	READINGS	REMARKS	#. <b>`</b>	FUTURE
SURFACE						<del></del>	<del></del>
INTERMEDIATE				<u> </u>			
PRODUCTION		·		•			
TUBING			· ·				-
				paccume			
CASING STRING	SIZE	SET AT	CMI	PRESSURE READINGS	REMARKS		FUTURE
SURFACE				<del></del>			
INTERMEDIATE	· ·			,			
PRODUCTION							
	·	·					- Alexander
TUBING		<del></del>				·	

	REAU OF LAND MANAGE			14-20-603-	5446
	OTICE IND REPOR		•	IF INDIAN, ALLOTTI	IS ON TRIBS NAME
Do not use this form for po	reposals to drill or to deeper or LICATION FOR PERMIT—" for	plus back to a different N	coervoir.	Navajo	
Uee "APP	LICATION FOR PERMIT—" SW	(dat bloboter:)	7.	DRIT ACADEMENT N	AMB
OIL GAS X OTES	water Injection	on Well	"	SW-I-4192	
2. HAMB OF OPBRATOR	<u> </u>	<del></del>	8.	PARM OR LEAGE NA	<del>_</del>
Phillips Petr	roleum Company		·	Ratherford	Unit
S. ADDRESS OF OPERATOR	20.0		9.	4W23	
4. LOCATION OF WELL (Report locat	20 Casper, WY 82602	th any State reentrements	10	. PIELO AND POOL,	M WILDCAT
See also space 17 below.) At surface				Greather A	
1980' FSL, 2	2140' FWL		11	. SEC., T., R., M., OR SURVEY OR ARE	BLE. AND
				Sec. 4-T41S-	
14. PERMIT NO.	15. BLEVATIONS (Show who	alternation and the same of th		COUNTY OR PARIS	
43-037-16389	4476' RKB	reser se, sr, es, etc.)	1	an Juan	Utah
16. Check	Appropriate Box To India	ate Nature of Notice,	Report, or Othe	r Data	
Notice of I	NTENTION TO:	_	SUBBRIGENT.	REPORT OF:	
TEST WATER SHUT-OFF	PULL OR ALTER CASING	WATER SHUT	-077	REPAIRING	WELL
FRACTURE TREAT	MULTIPLE COMPLETE	PRACTURE TR		ALTERING (	OKIRA:
SHOOT OR ACIDIES	ABANDON*	SECOTING OR	ACIDIZING	Abandonme	22.
REPAIR WELL	CHANGE PLANS	(Other) (Nors:	Report results of s	nuitiple completion	os Well
(Other)  17. DESCRIBE PROPOSED OR COMPLETE:	OPERATIONE (Clearly state all n				
A 10' x 8' x 6' fend	ced pit will be cons	structed on locat	tion in a pr	eviously	
disturbed area. Upo recovered.	on completion of the				
5-BLM, Farmington, 2- Utah O&G CC, Salt 1- P.J. Adamson 1- M. Williamson 302 1- J. R. Reno 1- Z. G. Sondelski	Lake City, Utah		DECI AUG	1 1 1986	
1- B. J. Murphy			ועום	SION OF	
1- File RC				S & MINING	
18. I hereby certify that the foregoi	ng is true and correct	A W			0 1006
SIGNED .C.	Ell TITLE	Area Manager		DATE	st 8, 1986
D. C. Gill (This space for Federal or State	e office man)				<del> </del>
form observe the season at Differ	•		VCCED.	FED BY THI	E STATE
APPROVED BY	TITLE IP ANY:		AUUET NE II	TAH DIVISI	ON OF
				AS, AND	AINING
Federal approval of this			DATE:	8-12 86	
is required before com	mencing See Instru	ctions on Reverse Side	UNIEY-	PR	
operations.			Like	· / \ · / / / / / / / / / / / / / / / /	<u> </u>

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any mayter within its jurisdiction.

#### RATHERFORD UNIT WELL #4W23

Item 17

#### Well Data:

13-3/8" 48# csg @ 105' w/125 sx cmt 8-5/8" 24# csg @ 1492' w/900 sx cmt 5-1/2" 14# csg @ 5435' w/250 sx cmt

Perfs @ 5369-5373, 5378-5384, 5404-5414, 5425-5433

Formation Tops:

Dechelly @ 2480' Hermosa @ 4400' Desert Creek @ 5363'

TD: 5435'

#### JUSTIFICATION:

The well does not have economical use as an injection well and has no recompletion or stimulation potential. Earlier Sundry Notice dated July 5, 1986, was to return well to injection, which now will not be done.

#### PROPOSED OPERATION

- 1) Sqz perfs w/75 sx cmt. TOC @ 5190'.
- Spot 25 sx cmt in 5-1/2" csg from 4550' to 4300' across Hermosa. 2)
- 3) Perf 5-1/2" csg @ 2660'.
- 4) Pump 120 sx cmt to provide 280' balanced plug in annulus and 5-1/2" csg from 2660' to 2380' to isolate the Dechelly fm.
- 5) Perf 5-1/2" csg @ 1540'.
- 6) Pump 50 sx cmt to provide 150' balanced plug in annulus and in 5-1/2" csg from 1540' to 1390' to provide a plug across 8-5/8" surf csg shoe.
- 7) Pump 25 sx cmt plug in annulus and 8-5/8" csg to provide 100' plug to surface.
- 8) Install P&A marker, unless surface owner requests otherwise, and rehab surface.
- 9) Will use mud-laden fluid between all cmt plugs.



**DIVISION OF** OIL. GAS & MINING

prember 1983) prmerty 9–331)	DEPARTMENT OF	THE INTER	OR verse alde)	Hone on to	HOS August 31, 1985
<b>A1</b> 24	BUREAU OL AND	MANAGEMEN'		14-2	0-603-5446 <b>J. Allottos de Tribo Nam</b>
(Do not up this	IDRY NOTICES AND	to deepen or play in IRMIT—" for sealing a	JAN WELLS repeals.)	rvelr. Nava	102810
				7. ones 40	SOMERS NAME
MOUL D WELL	U ersm Wtr	Inj (P&A)			-4192
. •	coleum Company			Rath	erford Unit
P. O. Box 292	∎ !O, Casper, Wyoming	82602		4W	
LOCATION OF WELL (	Report location clearly and in a low.)	ecordance with any	State requirements.		ter Aneth
1980'	FSL & 2140' FWL,	NE SW			A. H., OR DER. AND
		•			4-T41S-R24E
API #43-037-1	6389	NS (Show whether se	, st, ca, etc.)		GE PARME 11. STATE
4 4	✓ RKB	4476'		San	Juan Utah
	Check Appropriate B	ox To Indicate N	lature of Notice, R	eport, or Other Data	
	NOTICE OF INTENTION TO:			CONTRACTOR SERVICES	<b>•</b> :
TRAT WATER BEUT		<u> </u>	WATER SECT-O	[	ALEBRING CARING
PRACTURE TREAT	MULTIPLE COM		PRACTURE TREA		аваноонивиз• XX
REPAIR WELL	CHANGE PLANS		(Other)	eport results of multiple	complettee en Tel
(Other)		<u> </u>	Completic	a or Recompletion Report	and Log form.)
proposed work. I next to this work.)	8 COMPLETED OPERATIONS (Clear f well is directionally drilled,	riy state all pertinen give subsurface local	t details, and give per tions and measured an	d true vertical depths for	all markers and sones per
	September 12,	1986 through	September 19	<u>, 1986</u> –	
2357'. Spot sx Class B Cr 8-5/8" casing	48-4300'. Perforat 125 sx Class B Cmt nt Plug from 1540' gs 5' below GL. We l Plugged & Abandon	Plug from 2 to surface ilded 3/8" pl	660-2357' ins	ide and outside side csg. Cut-o	csg. Spot 450 ff 5-1/2" and
	OCT 20 1986			•	
	DIVISION OF OIL, GAS & MINI	ING	2 <del>-Vt</del> añ 1-M. W 1-J. L	Farmington, NM O&G CC, SLC, UT illiams, B'Ville andrum, Denver eno, Cortez	
I hereby certify the	the foregoing is true and cor		Aron Managor		October 16, 198
SIGNEDD.	C. Gill	TITLE	Area Manager		
(This space for Fed	eral or State office too)			ACCEPTED I	BY THE STATE
APPROVED BY	PPROVAL, IF ANY:	TITLE		OF UTAM	DIVISION OF
CORDITIONS OF A	eravian is and:			\ \ \ \ -	AND MINING
	•		•	DATE: 16-2	500
		*See Instructions		PHAIL / LATIN X	

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.